

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 March 2001 (22.03.2001)

PCT

(10) International Publication Number
WO 01/19983 A1

(51) International Patent Classification⁷: C12N 15/12,
C07K 14/72, 16/28, C12Q 1/68, C12N 15/11, 5/10, 1/19,
G01N 33/50, 33/566, A61K 48/00, 31/70, 31/00, A01K
67/027

[BE/BE]; C.J. van Houtenlaan 36, NL-1381 CP Weesp
(NL).

(21) International Application Number: PCT/EP00/09116

(22) International Filing Date:
15 September 2000 (15.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
99203014.8 16 September 1999 (16.09.1999) EP
1013062 16 September 1999 (16.09.1999) NL

(74) Agent: VERHAGE, Marinus; Octrooibureau Zoan B.V.,
P.O. Box 140, NL-1381 CP Weesp (NL).

(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ,
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): SOLVAY
PHARMACEUTICALS B.V. [NL/NL]; C.J. Van Houten-
laan 36, NL-1381 CP Weesp (NL).

Published:

— *With international search report.*

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): DELEERSNI-
JDER, Willy [BE/BE]; C.J. van Houtenlaan 36, NL-1381
CP Weesp (NL). NYS, Guy [BE/BE]; C.J. van Houtenlaan
36, NL-1381 CP Weesp (NL). D'HEUVAERT, Nicole

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: HUMAN G-PROTEIN COUPLED RECEPTOR

(57) Abstract: The present invention relates to the IGS3 G-protein coupled receptor family, and to polynucleotides encoding said IGS3 proteins. The invention also relates to inhibiting or activating the action of such polynucleotides and polypeptides. to a vector containing said polynucleotides, a host cell containing such vector and non-human transgenic animals where the IGS3-gene is either overexpressed, misexpressed, underexpressed or suppressed (knock-out animals). The invention further relates to a method for screening compounds capable to act as an agonist or an antagonist of said G-protein coupled receptor family IGS3 and the use of IGS3 polypeptides and polynucleotides and agonists or antagonists to the IGS3 receptor family in the treatment of a broad range of disorders and diagnostic assays for such conditions.